

Case	Age	Sex	Duration	Location	Findings
1	25	M	10 years	Left eye	Small, dark, pigmented lesion
2	35	F	5 years	Right eye	Large, light-colored, pigmented lesion
3	45	M	15 years	Left eye	Small, dark, pigmented lesion
4	55	F	20 years	Right eye	Large, light-colored, pigmented lesion
5	65	M	25 years	Left eye	Small, dark, pigmented lesion
6	75	F	30 years	Right eye	Large, light-colored, pigmented lesion
7	85	M	35 years	Left eye	Small, dark, pigmented lesion
8	95	F	40 years	Right eye	Large, light-colored, pigmented lesion

providing a luminance sensor and a color sensor having
a color filter thereover;

producing electronic video signals from outputs of said
luminance sensor and said color sensor.

3. The method as defined by claim 1, wherein said step of providing a color sensor having a color filter thereover comprises providing a color sensor with a two-color checkerboard filter pattern.

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providing a color sensor having a color filter thereover
comprises providing a color sensor with a two-color checkerboard
filter pattern.

5. The method as defined by claim 3, wherein said step of
providing a color sensor with a two-color checkerboard filter
pattern comprises providing a red-blue checkerboard filter
pattern.

6. The method as defined by claim 3, wherein said step of
providing a color sensor with a two-color checkerboard filter
pattern comprises providing a red-green checkerboard filter
pattern.

7. The method as defined by claim 2, wherein said step of
providing a pellicle beamsplitter comprises providing a pellicle
that is also operative as an opto-acoustical low pass filter.

8. The method as defined by claim 3, wherein said step of
providing a pellicle beamsplitter comprises providing a pellicle
that is also operative as an opto-acoustical low pass filter.

9. The method as defined by claim 7, further comprising
the step of applying ultrasonic excitation to said pellicle to
implement optical low pass pre-filtering of light from said image

15. The method as defined by claim 13, wherein said step of providing optical pre-filtering comprises providing a grating in the path of light from said image that is focused on said color sensor.

16. The method as defined by claim 13, wherein said step of providing a grating includes orienting lines of said grating on a diagonal with respect to vertical and horizontal reference directions of said color sensor.

17. The method as defined by claim 15, wherein said step of providing a grating includes orienting lines of said grating on a diagonal with respect to vertical and horizontal reference directions of said color sensor.

18. The method as defined by claim 1, further comprising the step of providing a rotating mechanical shutter in the path of light from said image that is focused by said lens system.

19. The method as defined by claim 3, further comprising the step of providing a rotating mechanical shutter in the path of light from said image that is focused by said lens system.

20. The method as defined by claim 1, wherein said step of providing a beamsplitter comprises providing a rotating

mechanical shutter that includes an open sector and a mirrored sector in the path of light from said image, so as to achieve temporal beamsplitting of said light from said image.

21. The method as defined by claim 3, wherein said step of providing a beamsplitter comprises providing a rotating mechanical shutter that includes an open sector and a mirrored sector in the path of light from said image, so as to achieve temporal beamsplitting of said light from said image.

22. The method as defined by claim 1, wherein said step of providing a beamsplitter comprises providing a rotating mechanical shutter that includes an open sector, a mirrored sector, and a dark sector, in the path of light from said image, so as to achieve temporal beamsplitting of said light from said image.

23. The method as defined by claim 3, wherein said step of providing a beamsplitter comprises providing a rotating mechanical shutter that includes an open sector, a mirrored sector, and a dark sector, in the path of light from said image, so as to achieve temporal beamsplitting of said light from said image.

24. The method as defined by claim 2, wherein said step of

rotating mechanical shutter in the path of light from said image that is focused by said lens system.

36. Apparatus as defined by claim 26, wherein said beamsplitter comprises a rotating mechanical shutter that includes an open sector, a mirrored sector, and a dark sector, in the path of light from said image, so as to achieve temporal beamsplitting of said light from said image.

37. A method for producing electronic video signals representative of color images of a scene, comprising the steps of:

providing a luminance sensor and a color sensor having a color filter thereover, said color filter comprising a two-color checkerboard filter pattern;

providing a beamsplitter, and providing lens system that focuses light from said image, via said beamsplitter, onto said luminance sensor and said color sensor; and

producing electronic video signals from outputs of said luminance sensor and said color sensor.

38. The method as defined by claim 37, wherein said step of providing a beamsplitter comprises providing a pellicle beamsplitter.

39. The method as defined by claim 37, wherein said step of providing a color sensor with a two-color checkerboard filter pattern comprises providing a red-blue checkerboard filter pattern.

40. The method as defined by claim 38, wherein said step of providing a color sensor with a two-color checkerboard filter pattern comprises providing a red-green checkerboard filter pattern.

41. The method as defined by claim 38, wherein said step of providing a pellicle beamsplitter comprises providing a pellicle that is also operative as an opto-acoustical low pass filter.

42. The method as defined by claim 38, further comprising the step of applying ultrasonic excitation to said pellicle to implement optical low pass pre-filtering of light from said image that is focused on said color sensor.

43. The method as defined by claim 38, further comprising the step of applying ultrasonic excitation to said pellicle along diagonal directions with respect to vertical and horizontal reference directions of said color sensor to effect optical pre-filtering of the light focused on said color sensor.

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